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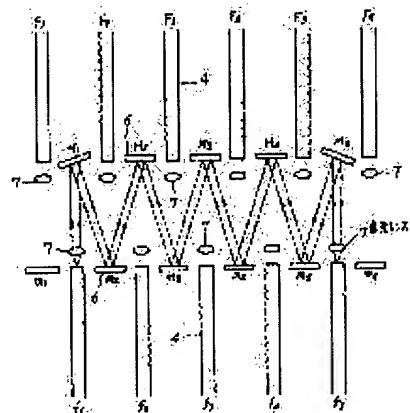
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(54) OPTICAL FIBER CONNECTOR

(57)Abstract:

PURPOSE: To simply connect optical fibers in an arbitrary combination by only rotating a mirror by forming a constitution body by two groups of those each of which is made of plural optical fibers arranged at equal intervals in parallel whose tips are put in order on a straight line, and mirrors rotating to the right and left at a prescribed angle, arranged at an equal interval on the same plane between the optical fibers.

CONSTITUTION: In case of transmitting an optical signal to an optical fiber f1 from an optical fiber f5, it will suffice that states of each mirror placed between two optical fibers are set to $M5(-\theta)$, $m5(0)$, $M4(0)$, $m4(0)$, $M3(0)$, $m3(0)$, $M2(0)$, $m2(0)$ and $M1(+\theta)$, respectively. That is, a light beam which is emitted from the optical fiber f5 goes to parallel rays by a condensing lens 7, reflected by the mirror $M5(-\theta)$ and reaches the mirror $m5(0)$, and thereafter, not influenced so much by a single intensity drop caused by broadening of the light beam, reflected repeatedly by the mirrors $M4(0)$, $m4(0)$, $M3(0)$, $m3(0)$, $M2(0)$ and $m2(0)$ in order, and reflected by the mirror $M1(+\theta)$ in the end, thereafter, made incident vertically on the optical fiber f1. In such a way, arbitrary optical fibers can be connected simply.



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